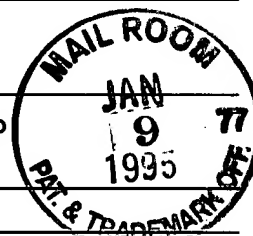


FORM PTO-1449 (Modified)

Attorney Docket No.  
14643-003122Serial No.  
08/154,019LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION  
DISCLOSURE STATEMENT  
(Use Several Sheets if Necessary)Applicant  
Herman A. DeBoer et al.Filing Date  
November 16, 1993Group  
1804

Reference Designation

U.S. PATENT DOCUMENTS

Examiner

File-Date

Initial	Document No.	Date	Name	Class	Subcl:	If Approp
---------	--------------	------	------	-------	--------	-----------

<i>JCC</i>	A1	5,213,979	5/25/93	First et al.	<del>C12N 5/00</del>	
------------	----	-----------	---------	--------------	----------------------	--

## FOREIGN PATENT DOCUMENTS

Document No.	Publn. Date	Country	Class	Subcl:	Trans. Yes No
<i>JCC</i> B1	WO 89/07135 (Bondioli)	8/10/89	PCT	C12N 5/00	
<i>JCC</i> B2	0 340 934 (Gordon)	11/8/89	EP	C12N 5/00	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

*Jasmin C. Chamber*

DATE CONSIDERED

*4/17/95*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Attorney Docket No.  
14643-31-2-2Serial No.  
08/154,019LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION  
DISCLOSURE STATEMENT  
(Use Several Sheets if Necessary)Applicant  
Herman A. DeBoer et al.Filing Date  
November 16, 1993

Group

Reference Designation

U.S. PATENT DOCUMENTS

Examiner

File Date

Initial	Document No.	Date	Name	Class	Subcl:	If Approp
---------	--------------	------	------	-------	--------	-----------

<i>AK</i>	A1	4,870,009	9/26/89	Evans et al.	<del>C12P-21/02</del>	
-----------	----	-----------	---------	--------------	-----------------------	--

## FOREIGN PATENT DOCUMENTS

Document No.	Publn. Date	Country	Class	Subcl:	Trans. Yes No
--------------	----------------	---------	-------	--------	------------------

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

*Jasemine C. Chambers*

DATE CONSIDERED

*4/17/95*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION  
DISCLOSURE STATEMENT  
(Use Several Sheets if Necessary)Applicant  
Herman A. DeBoer et al.Filing Date  
November 16, 1993

Group

## Reference Designation

## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Subcl:	File Date If Approp
------------------	--------------	------	------	-------	--------	---------------------

<u>100</u>	A1	4,736,866	04/12/88	Leder et al.		
<u>1</u>	A2	4,873,316	10/10/89	Meade et al.		
	A3	4,873,191	10/10/89	Wagner et al.		
	A4	4,994,384	02/19/91	Prather et al.		
	A5	5,096,822	03/17/92	Rosenkrans et al.		

## FOREIGN PATENT DOCUMENTS

Document No.	Publn. Date	Country	Class	Subcl:	Trans. Yes No
B1	0264166	04/88	Europe		
B2	90/05188	05/90	WIPO		
B3	0279582	08/24/88	Europe		
B4	88/00239	01/14/88	WIPO		
B5	88/10118	12/29/88	WIPO		
B6	88/01648	08/25/87	PCT (Hopp)		
B7	0559307	08/09/93	EP (Stice)		
B8	92/03917	19/03/92	PCT (Kay)		
B9	92/22647	23/12/92	PCT (Krimpenfort)		
B10	91/08216	13/06/91	PCT (Heyneker)		
B11	93/04171	04/03/93	PCT (Bergstrom)		
B12	93/04165	04/03/93	PCT (Bleck)		

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<u>100</u>	C1	Andres, A. et al., (1987) <i>Proc. Natl. Acad. Sci. USA</i> , 84:1299-1303, "Ha-ras oncogene expression directed by a milk protein gene promoter: Tissue specificity, hormonal regulation, and tumor induction in transgenic mice"
<u>100</u>	C2	Schoenberger, C.A. et al., (1987), <i>Experientia</i> , 43:644, "A milk protein gene promoter directs c-myc oncogene expression to mammary glands in transgenic mice"

EXAMINER

Jasemine C. Chambers

DATE CONSIDERED

4/17/95

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION  
DISCLOSURE STATEMENT  
(Use Several Sheets if Necessary)Applicant  
Herman A. DeBoer et al.Filing Date  
November 16, 1993

Group

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- gcc
- C3 Schoenberger, C.A. et al., (1988), *The EMBO J.*, 7(1):169-175, "Targeted c-myc gene expression in mammary glands of transgenic mice induces mammary tumours with constructive milk protein gene transcription"
- C4 Muller et al., (1988) *Cell*, 54:105-115, "Single-Step Induction of Mammary Adenocarcinoma in Transgenic Mice Bearing the Activated c-neu Oncogene"
- C5 Miller, K.F. et al., (1989), *J. Endocrin.*, 120:481-488, "Expression of human or bovine growth hormone gene with a mouse metallothionein-1 promoter in transgenic swine alters the secretion of porcine growth hormone and insulin-like growth factor-I"
- C6 Vize, P.D. et al., (1988), *J. Cell Sci.*, 90:295-300, "Introduction of a porcine growth hormone fusion gene into transgenic pigs promotes growth"
- C7 Ebert, K.M. et al. (1988), *Mol. Endocrin.*, 2(3):277-283, "A Moloney MLV-Rat Somatotropin Fusion Gene Produces Biologically Active Somatotropin in a Transgenic Pig"
- C8 Nancarrow, C. et al., (1987), *Theriogenology*, 27(1):263-264, "Production of a sheep Transgenic with the Ovine Growth Hormone Gene"
- C9 Wagner, T.E. et al. (1984), *Theriogenology*, 21(1):29-44, "The Possibility of Transgenic Livestock"
- C10 Lohse, J.K. et al., (1985), *Theriogenology*, 23(1):205 "Progress Towards Transgenic Cattle"
- C11 Van Brunt, (1988), *Bio/Technology*, 6(10):1149-1155, "Molecular Farming: Transgenic Animals as Bioreactors"
- gcc  
C12 Church, R.B., (1986), *Biotechnology News Watch*, 6(15):4, "Transgenic calf expresses human alpha-fetoprotein"

EXAMINER

Jasmin P. Chambers

DATE CONSIDERED

4/17/95

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION  
DISCLOSURE STATEMENT  
(Use Several Sheets if Necessary)Applicant  
Herman A. DeBoer et al.Filing Date  
November 16, 1993

Group

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- JCC* C13 Roschlau et al., (1988), *Arch. Tierz., Berlin*, 31:3-8  
"Microinjection of viral vector in bovine zygotes"
- C14 Pursel, V.G. et al., (1989), *Science*, 244:1281-1288,  
"Genetic Engineering of Livestock"
- C15 Simons, J.P. et al., (1987), *Nature*, 328:530-532,  
"Alteration of the quality of milk by expression of sheep  $\beta$ -  
lactoglobulin in transgenic mice"
- C16 Mercier, J.C. (1986) In: *Exploiting New Technologies in  
Animal Breeding: Genetic Developments Proc. of a Seminar in  
the CEC Animal Husbandry Res. Programme*, Edinburgh, UK,  
Oxford University Press, pp. 122-131 "Genetic engineering  
applied to milk producing animals: some expectations"
- C17 Lee, K.F et al., (1988), *Nucleic Acids Research*, 16(3):1027-  
1041. "Tissue-specific expression of the rat  $\beta$ -casein gene  
in transgenic mice"
- C18 Lathe, R. et al., (1986) In: *Exploiting New Technologies in  
Animal Breeding: Genetic Developments Proc. of a Seminar in  
the CEC Animal Husbandry Res. Programme*, Edinburgh, UK,  
Oxford University Press, pp. 91-102 "Novel products from  
livestock"
- C19 Pittius et al. "A Milk Protein Gene Promoter Directs the  
Expression of Human Tissue Plasminogen Activator cDNA to the  
Mammary Gland in Transgenic Mice." *Proc. Natl. Acad. Sci.  
USA*, 85:5874-5878 (1988)
- C20 Schneider (06/08/90), *The New York Times National*, "Texas  
researchers develop 4 gene-altered calves"
- C21 Lee, K.F. et al., (Dec. 1986) *J. of Cell Biol.*, 103:(5 Part  
2), p. 313a, Abstract No. 1161 "Expression of the rat  $\beta$ -  
casein gene in transgenic mice"
- JCC* C22 Minghetti et al., (1986), *J. Biol. Chem.*, 261(15):6747-6757  
"Molecular Structure of the Human Albumin Gene is Revealed  
by Nucleotide Sequence within q11-22 of Chromosome 4"

EXAMINER

*Jasmin E. Chambers*

DATE CONSIDERED

*4/17/95*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION  
DISCLOSURE STATEMENT  
(Use Several Sheets if Necessary)Applicant  
Herman A. DeBoer et al.Filing Date  
November 16, 1993

Group

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- gmc* C23 Hammer, R.E. et al., (June 20, 1985) *Nature* 315:680-683  
"Production of transgenic rabbits, sheep and pigs by  
microinjection"
- C24 Buhler, T.A. et al., (1990), *Bio/Technology*, 8:140-143,  
"Rabbit  $\beta$ -Casein Promoter directs Secretion of Human  
Interleukin-2 into the Milk of Transgenic Rabbits"
- C25 Chisari et al., "Hepatitis B virus gene expression in  
transgenic mice," *J. Cell. Biochem.*, Volume Suppl. 0 (10  
part A), issued 1986, page 212.
- C26 Steinhilper et al., "Expression of albumin-ANF and albumin-  
ANF receptor fusion genes in transgenic mice," *J. Cell  
Biochem.*, Volume 107 (6 part 3) (1988)
- C27 Urano et al., "The human albumin gene," *J. Biol. Chem.*  
261:3244-3251 (1986)
- C28 Dente et al., "Expression of human  $\alpha$ 1-acid glycoprotein  
genes in cultured cells and in transgenic mice" *Genes &  
Development* 2:259-266 (1988)
- C29 Kelsey et al., "Species and tissue-specific expression of  
human  $\alpha$ 1-antitrypsin in transgenic mice" *Genes & Development*  
1:161-171 (1987)
- gmc* C30 Pinkert et al., "An albumin enhancer located 10Kb upstream  
functions along with its promoter to direct efficient,  
liver-specific expression in transgenic mice", *Genes &  
Development* 1:268-276 (1987)

EXAMINER

DATE CONSIDERED

*Jasmine P. Chambers**4/17/95*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION  
DISCLOSURE STATEMENT  
(Use Several Sheets if Necessary)Applicant  
Herman A. DeBoer et al.Filing Date  
November 16, 1993

Group

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- JCC* *↑*
- C31 Biery et al. "Gene transfer by pronuclear injection in the bovine." *Theriogenology*, 29(1):224 (1988)
- C32 Bondioli et al. "Production of transgenic cattle by pronuclear injection" in Symposium on transgenic technology in medicine and agriculture, (1988: National Institutes of Health Biotechnology series, Volume 16), published by Butterworth-Heinemann, pp 265-273
- C33 Bowen et al. "Production of transgenic cattle from PCR-screening embryos." *Theriogenology*, 39:194 (1993)
- C34 Bremel et al. "Alteration of milk composition using molecular genetics." *J. Dairy Sci.*, 72:2826-2833 (1989)
- C35 Clark et al. "Expression of human antihemophilic factor IX in the milk of transgenic sheep." *Bio/Technology*, 7:487-492 (1989)
- C36 Gordon et al. "Production of human tissue plasminogen activator in transgenic mouse milk." *Bio/Technology*, 5:1183-1187 (1987)
- C37 Loskutoff, N.M. et al. "Gene microinjection in bovine embryos facilitated by centrifugation." *Theriogenology*, 25(1):168 (1986)
- C38 Simons, J. P. et al. "Gene transfer into sheep." *Bio/Technology*, Vol. 6 Feb. 1988, pp. 179-183.
- JCC* *↓*
- C39 Johnson et al., "Replication of a plasmid bearing a human Alu-family repeat in monkey COS-7 cells," *Proc. Natl. Acad. Sci. USA* 83:4660-4664 (1986)

EXAMINER *Jasemine P. Chambers*

DATE CONSIDERED

*4/17/95*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION  
DISCLOSURE STATEMENT  
(Use Several Sheets if Necessary)Applicant  
Herman A. DeBoer et al.Filing Date  
November 16, 1993

Group

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- ↑ JCC
- C40 Lee, A. et al. "Methylation analysis of a plasmid containing a mammalian cell cycle regulatory sequence after transient transfection into the host cell." *Biochemical and Biophysical Research Comm.* 135(3):942-947 (1986)
- C41 Saiki et al., "Analysis of enzymatically amplified  $\beta$ -globin and HLA-DQ $\alpha$  DNA with allele-specific oligonucleotide probes" *Nature* 324:163-166 (1986)
- C42 Archibald et al. "High level expression of biologically active human  $\alpha_1$ -antitrypsin in the milk of transgenic mice." *Proc. Natl. Acad. Sci. USA*, 87:5178-5182 (1990)
- C43 Bisbee et al. "DNA sequence elements regulating casein gene expression." *UCLA Symposium on Molecular and Cellular Biology*, 52:312-323 (April 6-13, 1986)
- C44 Brinster et al. "Introns increase transcriptional efficiency in transgenic mice." *Proc. Natl. Acad. Sci. USA*, 85:836-840 (1988)
- C45 Burdon, T. et al. "Expression of a whey acidic protein transgene during mammary development." *J. Biol. Chem.* 266:6909-6914 (1991)
- C46 Church, R.B. "Embryo manipulation and gene transfer in domestic animals." *TibTech*, 5:13-19 (1987)
- C47 Clark et al. "Pharmaceuticals from transgenic livestock." *Trends in Biotechnology*, 5(1):20-24 (1987)
- C48 Clark et al. "The molecular manipulation of milk composition." *Genome*, 31:950-955 (1989)
- ↓ JCC
- C49 Denman et al. "Transgenic expression of a variant of human tissue-type plasminogen activator in goat milk: purification and characterization of the recombinant enzyme." *Bio/Technology*, 9:839-843 (1991)

EXAMINER

Jasmine C. Chambers

DATE CONSIDERED

4/17/95

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION  
DISCLOSURE STATEMENT  
(Use Several Sheets if Necessary)Applicant  
Herman A. DeBoer et al.Filing Date  
November 16, 1993

Group

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- sc
- C50 DiTullio et al. "Production of cystic fibrosis transmembrane conductance regulator in the milk of transgenic mice." *Bio/Technology*, 10:74-77 (1992)
- C51 Ebert et al. "Transgenic production of a variant of human tissue-type plasminogen activator in goat milk: generation of transgenic goats and analysis of expression." *Bio/Technology*, 9:835-838 (1991)
- C52 Hennighausen "The mammary gland as a bioreactor: production of foreign proteins in milk." *Protein Expression and Purification*, 1:3-8 (1990)
- C53 Johke "Hormones concerning growth and lactation and introduction of genes to farm animals." *Chemical Abstracts*, 104(25):219-234 (1986)
- C54 Jones et al. "The rat casein multigene family." *Journal of Biological Chemistry*, 260(11):7042-7050 (1985)
- C55 Kraemer et al. "Gene transfer into pronuclei of cattle and sheep zygotes." *Genetic Manipulation of the Early Mammalian Embryo* (Costantini, Frank and Jaenisch, Rudolf eds.) pp. 221-227 (20 Banbury Report, Cold Spring Harbor Lab. 1985)
- ✓
- sc C56 Krimpenfort et al. "Generation of transgenic dairy cattle using "in vitro" embryo production." *Bio/Technology*, 9:844-847 (1991)

EXAMINER

Jasmin P. Chambers

DATE CONSIDERED

4/17/95

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION  
DISCLOSURE STATEMENT  
(Use Several Sheets if Necessary)Applicant  
Herman A. DeBoer et al.Filing Date  
November 16, 1993

Group

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- see*
- C57 Lathe et al. "Novel products from livestock." In: *Exploiting New Technologies in Animal Breeding: Genetic Developments*. (Proceedings of a seminar in the CEC Animal Husbandry Research Program, Edinburgh, UK, June 19-20, 1985). Oxford Univ. Press 1986, pp. 91-102.
- C58 Lee et al. "Differential regulation of rat  $\beta$ -casein-chloramphenicol acetyltransferase fusion gene expression in transgenic mice." *Molecular and Cellular Biology*, 9(2):560-565 (1989)
- C59 Meade et al. "Bovine  $\alpha_{s1}$ -casein gene sequences direct high level expression of active human urokinase in mouse milk." *Bio/Technology*, 8:443-446 (1990)
- C60 Platenburg et al. "Expression of biomedical proteins in milk of transgenic animals." *J. Cell. Biochem. Supplement* 15A, Abstract No. B409 (1991)
- C61 Rosen et al. "Analysis of milk protein gene expression in transgenic mice," *Mol. Biol. Med.*, 6:501-509 (1989)
- C62 Rosen et al. "Molecular biology of milk proteins." *Mechanisms Regulating Lactation and Infant Nutrient Utilization*, pp. 1-19, 1992, Wiley-Liss, Inc.
- C63 Rosen, J. "Transgenic animals and biotechnology: the impact of basic research." *Biotechnology: Science, Education and Commercialization*, pp. 13-21 (1990)
- see* C64 Stewart et al. "Nucleotide sequences of bovine  $\alpha_{s1}$ - and  $\kappa$ -casein cDNAs," *Nucl. Acids Res.* 12(9):3895-3907 (1984)

EXAMINER

*Jasmin E. Chambers*

DATE CONSIDERED

*4/17/95*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF PATENTS AND PUBLICATIONS  
FOR APPLICANT'S INFORMATION  
DISCLOSURE STATEMENT  
(Use Several Sheets if Necessary)Applicant  
Herman A. DeBoer et al.Filing Date  
November 16, 1993

Group

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- JCC*  
↑  
C65 Strijker et al. "Expression of biomedical proteins in milk,"  
*Proceedings of the 5th European Congress on Biotechnology*,  
Copenhagen July 8-13, 1990, pp. 949-952
- C66 Tomasetto et al. "Breast cancer protein PS2 synthesis in  
mammary gland of transgenic mice and secretion into milk,"  
*Mol. Endo.* 3(10):1579-1584 (1989)
- C67 Wall et al. "High-level synthesis of a heterologous milk  
protein in the mammary glands of transgenic swine," *Proc.*  
*Natl. Acad. Sci. USA*, 88:1696-1700 (1991)
- C68 Wright et al. "High level expression of active human alpha-  
1-antitrypsin in the milk of transgenic sheep,"  
*Bio/Technology*, 9:830-834 (1991)
- C69 Yu et al. "Functional human CD4 protein in milk of  
transgenic mice," *Mol. Biol. Med.* 6:255-261 (1989)
- JCC*  
↓  
C70 Yu-Lee et al. "Evolution of the casein multigene family:  
conserved sequences in the 5' flanking and exon regions,"  
*Nucl. Acids, Res.* 14(4):1883-1901 (1986)

EXAMINER

*Jasemine Q. Chambers*

DATE CONSIDERED

*4/17/95*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.